

IN THE CLAIMS

1-18. (canceled)

19. (new) A medical treatment device comprising:

a fixed treatment unit with user-accessible controls configured to permit the control of administration of a medical treatment of a patient provided by the treatment unit and indicators configured to show status information relating to the medical treatment;

a programmable fixed monitor unit with at least one display, at least one control configured to permit the selection of information to be shown on the display;

the monitor unit being positioned adjacent the treatment unit such that a single user has simultaneous access to the treatment unit controls and indicators and the monitor unit controls and display;

the monitor unit being signally connected to the treatment unit by means of a one-way communication mechanism such that the monitor unit is prevented from affecting the administration of the medical treatment by the treatment unit;

the monitor unit receiving data from the treatment unit and outputting at least data relating to a status of a treatment being delivered by the treatment unit.

20. (new) The device of claim 19, wherein the treatment unit and the monitor unit are permanently attached to each other.

21. (new) The device of claim 19, wherein the treatment unit and the monitor are connected to a common control panel with inputs and outputs, each connected such that any signals from the monitor unit are prevented from affecting a state of the treatment unit.

22. (new) The device of claim 21, wherein the treatment unit and the monitor unit and the control panel are located within a common housing.

23. (new) The device of claim 19, wherein the monitor unit is configured to output on the display at least one of a time-series of sensor signals received over the one-way

communication mechanism, a graphical representation of sensor signals received over the one-way communication mechanism, maximum and minimum sensor signal values received over the one-way communication mechanism, text adding information to information received over the one-way communication mechanism, and troubleshooting information responsive to information received over the one-way communication mechanism.

24. (new) The device of claim 19, wherein the monitor unit is configured to output on the display a time-series of sensor signals received over the one-way communication mechanism.

25. (new) The device of claim 19, wherein the monitor unit is configured to output on the display a graphical representation of sensor signals received over the one-way communication mechanism.

26. (new) The device of claim 19, wherein the monitor unit is configured to output on the display maximum and minimum sensor signal values received over the one-way communication mechanism.

27. (new) The device of claim 19, wherein the monitor unit is configured to output on the display text adding information to information received over the one-way communication mechanism.

28. (new) The device of claim 19, wherein the monitor unit is configured to output on the display troubleshooting information responsive to information received over the one-way communication mechanism.

29. (new) The device of claim 19, wherein the monitor unit outputs information that cannot be obtained from the indicators of the treatment unit such that the monitor unit complements the treatment unit in terms of the information shown.

30. (new) The device of claim 19, wherein adjustment of the monitor unit at least one control is prevented from affecting the treatment administered by the treatment unit.

31. (new) The device of claim 19, wherein the information output by the monitor unit excludes any real-time information that is not available from the treatment unit indicators.

32. (new) The device of claim 19, wherein the information output by the monitor unit excludes any real-time information obtained from the one-way communication mechanism, whereby the monitor unit information may not be used by an operator to make changes in the treatment unit's settings.

33. (new) The device of claim 19, wherein the monitor unit and treatment unit are configured to be located adjacent the patient being treated.

34. (new) The device of claim 19, wherein the monitor unit at least one control includes multiple controls and the display includes a graphical display.

35. (new) The device of claim 19, wherein the monitor unit is prevented from sending signals to the treatment device.

36. (new) The device of claim 19, wherein the monitor unit is prevented from sending signals to the treatment device and the one-way communication mechanism includes an opto-isolators connecting the treatment and monitor units.

37. (new) A medical treatment device comprising:
a treatment unit with user-accessible controls configured to permit the control of administration of a medical treatment of a patient provided by the treatment unit and indicators configured to show status information relating to the medical treatment;
a programmable monitor unit with at least one display, at least one control configured to permit the selection of information to be shown on the display;

the monitor unit being attached to the treatment unit such that a single user has simultaneous access to the treatment unit controls and indicators and the monitor unit controls and display;

the monitor unit being signally connected to the treatment unit by means of a one-way communication mechanism such that the monitor unit is prevented from affecting the state of the treatment unit;

the monitor unit receiving data from the treatment unit and outputting at least data relating to a status of a treatment being delivered by the treatment unit.

38. (new) The device of claim 37, wherein the treatment unit and the monitor are connected to a common control panel with inputs and outputs, each connected such that any signals from the monitor unit are prevented from affecting a state of the treatment unit.

39. (new) The device of claim 38, wherein the treatment unit and the monitor unit and the control panel are located within a common housing.

40. (new) The device of claim 37, wherein the monitor unit is configured to output on the display at least one of a time-series of sensor signals received over the one-way communication mechanism, a graphical representation of sensor signals received over the one-way communication mechanism, maximum and minimum sensor signal values received over the one-way communication mechanism, text adding information to information received over the one-way communication mechanism, and troubleshooting information responsive to information received over the one-way communication mechanism.

41. (new) The device of claim 37, wherein the monitor unit is configured to output on the display a time-series of sensor signals received over the one-way communication mechanism.

42. (new) The device of claim 37, wherein the monitor unit is configured to output on the display a graphical representation of sensor signals received over the one-way communication mechanism.

43. (new) The device of claim 37, wherein the monitor unit is configured to output on the display maximum and minimum sensor signal values received over the one-way communication mechanism.

44. (new) The device of claim 37, wherein the monitor unit is configured to output on the display text adding information to information received over the one-way communication mechanism.

45. (new) The device of claim 37, wherein the monitor unit is configured to output on the display troubleshooting information responsive to information received over the one-way communication mechanism.

46. (new) The device of claim 37, wherein the monitor unit outputs information that cannot be obtained from the indicators of the treatment unit such that the monitor unit complements the treatment unit in terms of the information shown.

47. (new) The device of claim 37, wherein adjustment of the monitor unit at least one control is prevented from affecting the treatment administered by the treatment unit.

48. (new) The device of claim 37, wherein the information output by the monitor unit excludes any real-time information that is not available from the treatment unit indicators.

49. (new) The device of claim 37, wherein the information output by the monitor unit excludes any real-time information obtained from the one-way communication mechanism, whereby the monitor unit information may not be used by an operator to make changes in the treatment unit's settings.

50. (new) The device of claim 37, wherein the monitor unit and treatment unit are configured to be located adjacent the patient being treated.

51. (new) The device of claim 37, wherein the monitor unit at least one control includes multiple controls and the display includes a graphical display.

52. (new) The device of claim 37, wherein the monitor unit is prevented from sending signals to the treatment device.

53. (new) The device of claim 37, wherein the monitor unit is prevented from sending signals to the treatment device and the one-way communication mechanism includes an opto-isolators connecting the treatment and monitor units.

54. (new) A medical treatment device comprising:
a treatment unit with user-accessible controls configured to permit the control of administration of a medical treatment of a patient provided by the treatment unit and indicators configured to show status information relating to the medical treatment;
a programmable monitor unit with at least one display, at least one control configured to permit the selection of information to be shown on the display;
the monitor unit being attached to the treatment unit such that a single user has simultaneous access to the treatment unit controls and indicators and the monitor unit controls and display;
the monitor unit being signally connected to the treatment unit by means of a one-way communication mechanism such that the monitor unit is prevented from affecting the state of the treatment unit;
the monitor unit receiving data from the treatment unit and outputting at least data relating to a status of a treatment being delivered by the treatment unit;
wherein the information output by the monitor unit excludes any real-time information obtained from the one-way communication mechanism, whereby the monitor unit information may not be used by an operator to make changes in the treatment unit's settings.

55. (new) The device of claim 54, wherein the treatment unit and the monitor are connected to a common control panel with inputs and outputs, each connected such that any signals from the monitor unit are prevented from affecting a state of the treatment unit.

56. (new) The device of claim 55, wherein the treatment unit and the monitor unit and the control panel are located within a common housing.

57. (new) The device of claim 54, wherein the monitor unit is configured to output on the display at least one of a time-series of sensor signals received over the one-way communication mechanism, a graphical representation of sensor signals received over the one-way communication mechanism, maximum and minimum sensor signal values received over the one-way communication mechanism, text adding information to information received over the one-way communication mechanism, and troubleshooting information responsive to information received over the one-way communication mechanism.

58. (new) The device of claim 54, wherein the monitor unit is configured to output on the display a time-series of sensor signals received over the one-way communication mechanism.

59. (new) The device of claim 54, wherein the monitor unit is configured to output on the display a graphical representation of sensor signals received over the one-way communication mechanism.

60. (new) The device of claim 54, wherein the monitor unit is configured to output on the display maximum and minimum sensor signal values received over the one-way communication mechanism.

61. (new) The device of claim 54, wherein the monitor unit is configured to output on the display text adding information to information received over the one-way communication mechanism.

62. (new) The device of claim 54, wherein the monitor unit is configured to output on the display troubleshooting information responsive to information received over the one-way communication mechanism.

63. (new) The device of claim 54, wherein the monitor unit outputs information that cannot be obtained from the indicators of the treatment unit such that the monitor unit complements the treatment unit in terms of the information shown.

64. (new) The device of claim 54, wherein adjustment of the monitor unit at least one control is prevented from affecting the treatment administered by the treatment unit.

65. (new) The device of claim 54, wherein the information output by the monitor unit excludes any real-time information that is not available from the treatment unit indicators.

66. (new) The device of claim 54, wherein the monitor unit and treatment unit are configured to be located adjacent the patient being treated.

67. (new) The device of claim 54, wherein the monitor unit at least one control includes multiple controls and the display includes a graphical display.

68. (new) The device of claim 54, wherein the monitor unit is prevented from sending signals to the treatment device.

69. (new) The device of claim 54, wherein the monitor unit is prevented from sending signals to the treatment device and the one-way communication mechanism includes an opto-isolators connecting the treatment and monitor units.